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an Internet protocol processor/microcontroller connected to said digital cellular processor/microcontroller;

an audio analog-to-digital converter and an audio digital-to-analog converter connected to said Internet protocol processor/microcontroller; and

a speaker connected to said audio digital-to-analog converter and a microphone connected to said audio analog-to-digital converter; wherein,

all analog

in the receive direction the transceiver receives radio signals from said antenna and converts them into analog baseband signals, the radio analog-to-digital converter converts said analog baseband signals into raw data signals, the digital cellular processor/microcontroller processes said raw data signals into a voice over Internet Protocol packetized data stream, the Internet protocol processor/microcontroller unpacketizes and processes said voice over Internet Protocol packetized data stream into voice data stream, the audio digital-to-analog converter converts said voice data stream into analog waveforms, and the speaker broadcasts said analog waveforms, and,

in the transmit direction the microphone receives analog waveforms, the audio analog-to-digital converter converts said analog waveforms into raw data signals, the Internet protocol processor/microcontroller packetizes and processes said raw data signals into a voice over Internet Protocol packetized data stream, the digital cellular processor/microcontroller processes said voice over Internet Protocol packetized data stream into a digital cellular compatible data stream, the radio digital-to-analog converter converts said digital cellular compatible data stream into analog signals, and the transceiver converts the analog signals into a modulated radio carrier signal which is forwarded to said antenna.